Notice of Allowability	Application No.	pplication No. Applicant(s)	
	10/665,012	SILLARD ET AL.	
	Examiner		
	Akm Enayet Ullah	Art Unit	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL 85 NOTICE OF ALLOWARD 1750).		2874	1
of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to June18,2004. 2. The allowed claim(s) is/are 1-36. 3. The drawings filed on are accepted by the Examine 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives a submitted in the complex of the priority documents have 2. Corrected to timely comply will result in ABANDONME 1. CORRECTED DRAWINGS (as "replacement sheets") must be submitted in the complex of the priority documents have 2. Corrected Drawings required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date	r. and MPEP 1308. r. and MPEP 1308. r. and seen received. been received in Application Numents have been received in Application of this application. f this communication to file a received in Application. ed. Note the attached EXAMIN reason(s) why the oath or declar submitted. respectively.	ication will be mailed in dubject to withdrawal from isset to withdrawal from its withdrawa	tion from the
Identifying indicia such as the application number (see 37 CFR 1.84(each sheet. Replacement sheet(s) should be labeled as such in the hard DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR	c)) should be written on the draw	vings in the front (not the ba	ack) of e the
achment(s) ☑ Notice of References Cited (PTO-892) ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 6/18/04 ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Dar 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	re nent/Comment	

Reasons For Allowance

.None of the references disclose alone or in combination a chromatic dispersion compensation module comprising:

the module having insertion losses IL expressed in dB,

where
$$IL = \frac{D_{DCM}}{D_{DCF}} \cdot \alpha_{DCF} + \Gamma_{in} + \Gamma_{out}$$

and where $D_{DCM} = -1360$ ps/nm,

the module having a non-linearity criterion NLC representing the effects of the non-linear phase and expressed in 10⁻⁶km/W-dB,

where
$$NLC = \frac{100 \cdot n_2 \cdot (1 - 10^{\frac{D_{DCM}}{10 \cdot FOM_{DCF}}})}{A_{eff} \cdot \alpha_{DCF} \cdot 10^{\frac{\Gamma_{la}}{10}}}$$
,

the module having a quality criterion CQ expressed in dB,

where $CQ = IL + 10 \log NLC$,

the module having a quality-to-price ratio criterion CQ2 expressed in dB,

where
$$CQ2 = CQ + B \log(FOM_{DCF})$$

and where B = 18,

61.3 dB.

and the compensation optical fiber or the set of compensation optical fibers in series having,

firstly, average chromatic dispersion more negative than -130 ps/nm-km,

secondly, average chromatic dispersion to dispersion slope ratio in the range 240 nm to 400 nm, and

thirdly, for a given average figure of merit, average attenuation sufficiently high for the quality criterion to be less than 20.5 dB and the quality-to-price ratio criterion to be less than AKM E

AKM ENAYET ULLAH
PRIMARY EXAMINER